

Title (en)
DIFFERENTIAL PRESSURE TYPE FLOWMETER

Title (de)
STRÖMUNGSMESSER DES DIFFERENZDRUCKTYPUS

Title (fr)
DÉBITMÈTRE À PRESSION DIFFÉRENTIELLE

Publication
EP 1944583 A4 20130313 (EN)

Application
EP 06781634 A 20060726

Priority
• JP 2006314722 W 20060726
• JP 2005263338 A 20050912

Abstract (en)
[origin: EP1944583A1] A compact differential-pressure flow meter with reduced wiring is provided. The differential-pressure flow meter has first and second pressure sensors 12A and 12B fixed to a base member 14 on upstream and downstream sides of an orifice member 11 along a flow channel to determine a flow rate based on a pressure difference measured between the two sides of the orifice member 11 by the pressure sensors. The differential-pressure flow meter includes specific control boards disposed near pressure-sensing parts installed in the respective pressure-sensing device and a main control board disposed in a board installation space formed inside the base member. The specific control boards are connected to the main control board with wires passing through a plurality of wiring conduits provided in housings of the pressure-sensing device, and external wiring are connected to one of the specific control boards or to the main control board.

IPC 8 full level
G01F 1/42 (2006.01); **G01F 1/36** (2006.01); **G01F 1/38** (2006.01); **G01F 1/44** (2006.01); **G01F 15/00** (2006.01); **G01F 15/14** (2006.01); **G01F 15/18** (2006.01)

CPC (source: EP KR US)
G01F 1/00 (2013.01 - KR); **G01F 1/363** (2013.01 - EP US); **G01F 1/383** (2013.01 - EP US); **G01F 1/42** (2013.01 - EP KR US); **G01F 1/44** (2013.01 - EP US); **G01F 15/005** (2013.01 - EP US); **G01F 15/14** (2013.01 - EP US); **G01F 15/18** (2013.01 - EP US)

Citation (search report)
• [I] WO 9802686 A1 19980122 - MKS INSTR INC [US]
• [A] DE 10001165 A1 20010726 - LIEBHERR AEROSPACE GMBH [DE]
• See references of WO 2007032150A1

Cited by
EP2216632A1; EP3088850A1; EP1887326A4; KR20100090202A; EP3532806A4; RU2744935C2; US7610817B2; US8225814B2; US10578467B2; US11761838B2; US12038312B2; WO2016173864A1; WO2020202151A1; WO2023088584A1

Designated contracting state (EPC)
DE

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EP 1944583 A1 20080716; EP 1944583 A4 20130313; EP 1944583 B1 20170927; JP 2007078383 A 20070329; JP 4700448 B2 20110615; KR 101261992 B1 20130508; KR 20080042112 A 20080514; US 2009229377 A1 20090917; US 7891256 B2 20110222; WO 2007032150 A1 20070322

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EP 06781634 A 20060726; JP 2005263338 A 20050912; JP 2006314722 W 20060726; KR 20087005405 A 20080304; US 6613806 A 20060726